

**PATENT COOPERATION TREATY**  
**PCT**  
**INTERNATIONAL SEARCH REPORT**  
(PCT Article 18 and Rules 43 and 44)

|   |   |  |
|---|---|--|
| Applicant's or agent's file reference<br><b>9577-61 KAM</b> | <b>FOR FURTHER ACTION</b> <div style="text-align: right; font-size: small;">see Form PCT/ISA/220<br/>as well as, where applicable, item 5 below</div> |  |
| International application No.<br><b>PCT/CA2007/000862</b>   | International filing date ( <i>day/month/year</i> )<br>14 May 2007 (14-05-2007)   | (Earliest) Priority date ( <i>day/month/year</i> )<br>12 May 2006 (12-05-2006) |
| Applicant<br><b>ODIDI, ISA ET AL</b>                        |   |  |

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

☒ the international application in the language in which it was filed

☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I

2. ☒ **Certain claims were found unsearchable** (see Box No. II)

3. ☐ **Unity of invention is lacking** (see Box No. III)

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant

☐ the text has been established by this Authority to read as follows :

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant

☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant

☐ as selected by this Authority, because the applicant failed to suggest a figure

☐ as selected by this Authority, because this figure better characterizes the invention

b. ☐ none of the figures is to be published with the abstract

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2007/000862**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of the first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1. ☒ Claim Nos. : 67-69

because they relate to subject matter not required to be searched by this Authority, namely :

Although claims 67-69 are directed to a method of treatment of the human or animal body, the search has been carried out and based on the alleged effects of the composition.

2. ☐ Claim Nos. :

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :

3. ☐ Claim Nos. :

because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows :

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claim Nos. :

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claim Nos. :

**Remark on Protest** ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2007/000862

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: *A61K 9/06* (2006.01), *A61K 31/485* (2006.01), *A61K 47/02* (2006.01), *A61K 47/30* (2006.01),  
*A61K 47/44* (2006.01), *A61K 9/52* (2006.01), *A61P 25/30* (2006.01).

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: *A61K 9/06* (2006.01), *A61K 31/485* (2006.01), *A61K 47/02* (2006.01), *A61K 47/30* (2006.01),  
*A61K 47/44* (2006.01), *A61K 9/52* (2006.01), *A61P 25/30* (2006.01).

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)  
Delphion, Esp@cenet, QWeb, USPTO, Canadian Patent Database

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages               | Relevant to claim No.                                       |
|-----------|--|---|
| P         | US 2007/0104778 (Zeng et al.)<br>10 May 2007 (10-05-2007)<br>claims 1, 3-6, 12                   | 1, 2, 5, 7, 39, 70, 71                                      |
| X         | US 6 607 751 (Odidi et al.)<br>19 August 2003 (19-08-2003)<br>claims 1-7, 17-20                  | 1-4, 9, 15-19, 21, 23-25, 27-37, 70-74                      |
| X         | US 6 627 635 (Palermo et al.)<br>30 September 2003 (30-09-2003)<br>claims 1, 9, 20, 21           | 1, 2, 15-17, 21, 23-25, 27-37, 64, 70, 71,<br>74            |
| X         | US 2006/0039864 (Bartholomaeus et al.)<br>23 February 2006 (23-02-2006)<br>claims 1-3, 7, 10, 14 | 1, 2, 5, 15-17, 21-25, 27-37, 39, 63, 64,<br>66, 70, 71, 74 |

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents :  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier application or patent but published on or after the international filing date  
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search

03 August 2007 (03-08-2007)

Date of mailing of the international search report

31 August 2007 (31-08-2007)

Name and mailing address of the ISA/CA  
 Canadian Intellectual Property Office  
 Place du Portage I, C114 - 1st Floor, Box PCT  
 50 Victoria Street  
 Gatineau, Quebec K1A 0C9  
 Facsimile No.: 001-819-953-2476

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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2007/000862

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.                                  |
|-----------|--|--|
| X         | US 4 946 853 (Bannon et al.)<br>07 August 1990 (07-08-1990)<br>1, 2, 5, 6, 8, 15, 19 | 1-5, 7, 9, 10, 15-19, 21, 23, 24, 27-38, 64, 66-74, 76 |
| A         | US 6 312 724 (Odidi et al.)<br>06 November 2001 (06-11-2001)                         |  |

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/CA2007/000862

| Patent Document<br>Cited in Search Report | Publication<br>Date | Patent Family<br>Member(s)   | Publication<br>Date  |
|---|---------------------|--|--|
| US2007104778                              | 10-05-2007          | WO2007056424 A2  | 18-05-2007   |
| US6607751                                 | 19-08-2003          | US7090867 B2<br>US2007065510 A1  | 15-08-2006<br>22-03-2007   |
| US6627635                                 | 30-09-2003          | AU755790B B2<br>AU2089999 A<br>BR9813826 A<br>CA2314896 A1<br>CN1204890C C<br>EP1041988 A1<br>HU0100310 A2<br>IL136805D D0<br>JP2001526229T T<br>NO20003278 A<br>NZ505192 A<br>NZ523964 A<br>PL341309 A1<br>RU2228180 C2<br>TR200001828T T2<br>US6228863 B1<br>US2005192309 A1<br>WO9932120 A1 | 19-12-2002<br>12-07-1999<br>10-10-2000<br>01-07-1999<br>01-06-2005<br>11-10-2000<br>28-06-2001<br>25-11-2001<br>18-12-2001<br>22-08-2000<br>30-05-2003<br>31-10-2003<br>09-04-2001<br>10-05-2004<br>21-11-2000<br>08-05-2001<br>01-09-2005<br>01-07-1999               |
| US2006039864                              | 23-02-2006          | AR053304 A1<br>AU2005259478 A1<br>CA2572352 A1<br>DE102004032103<br>EP1786403 A1<br>KR20070039041 A<br>NO20070578 A<br>WO2006002886 A1   | 02-05-2007<br>12-01-2006<br>12-01-2006<br>19-01-2006<br>23-05-2007<br>11-04-2007<br>31-01-2007<br>12-01-2006   |
| US4946853                                 | 07-08-1990          | AT161721T T<br>AU607214B B2<br>AU1534988 A<br>CA1333051 C<br>DE3856096D D1<br>DE3856096T T2<br>DK235088 A<br>EP0289342 A2<br>ES2112241T T3<br>GR3026563T T3<br>IE57786 B1<br>IL86170 A<br>JP1006216 A<br>NO179963B B<br>NZ224426 A<br>PH24437 A<br>PT87377 A<br>US5298257 A<br>ZA8803081 A     | 15-01-1998<br>28-02-1991<br>03-11-1988<br>15-11-1994<br>12-02-1998<br>09-07-1998<br>10-01-1989<br>02-11-1988<br>01-04-1998<br>31-07-1998<br>07-04-1993<br>01-12-1992<br>10-01-1989<br>14-10-1996<br>21-12-1990<br>25-06-1990<br>31-05-1989<br>29-03-1994<br>25-01-1989 |
| US6312724                                 | 06-11-2001          | US6509037 B2   | 21-01-2003   |